

PUBLICATION NUMBER : 2001271771
PUBLICATION DATE : 05-10-01

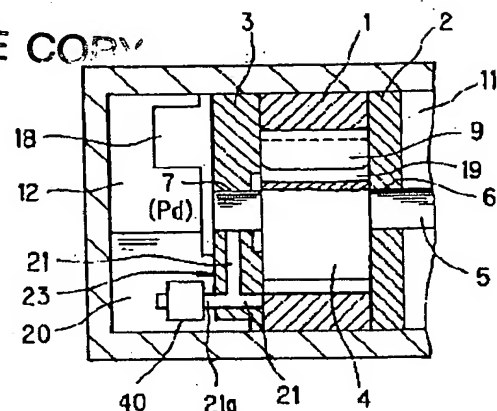
APPLICATION DATE : 27-03-00
APPLICATION NUMBER : 2000086240

APPLICANT : SEIKO INSTRUMENTS INC;

INVENTOR : MORITA KEIICHI;

INT.CL. : F04C 18/344 F04C 29/02

TITLE : GAS COMPRESSOR



- | | |
|-----------------|--------------|
| 1 シリンダ | 18 油分離器 |
| 2 フロント側のサイドブロック | 19 背圧室 |
| 3 リア側のサイドブロック | 20 オイル溜まり |
| 4 ロータ | 21 油穴 |
| 5 ロータ軸 | 21a 油穴入口 |
| 6 軸受 | 22 サライ溝 |
| 7 軸受 | 23 オイル供給路 |
| 8 ベーン溝 | 40 可変絞り手段 |
| 9 ベーン | 41 バルブハウジング |
| 10 圧縮室 | 42 スプール弁 |
| 11 吸入室 | 42a くびれ通路 |
| 12 吐出室 | 43 ベローズ |
| 13 吸入通路 | 43a ベローズの可動端 |
| 14 吸入口 | 44 ハウジング内部流路 |
| 15 吐出孔 | 45 ベローズ収納室 |
| 16 リードバルブ | Pd 吐出圧力 |
| 17 吐出チャンバ | |

ABSTRACT : PROBLEM TO BE SOLVED: To provide a gas compressor suitable for simultaneously performing the prevention of chattering of a vane and the reduction of the power of the compressor.

SOLUTION: A variable restriction means 40 is installed in an oil inlet 21a of a rear side block 3 for example on the way of an oil supply passage 23 to a back pressure chamber 9 side, and when discharge pressure Pd is high, the variable restriction means 40 strongly restricts the restriction of oil supply to the back pressure chamber 19 to reduce the vane back pressure and also reduce the power of the compressor in consideration of rare generation of chattering of the vane even if the vane back pressure is low, and when the discharge pressure is low, loosens the restriction of oil supply to the back pressure chamber 19 to increase the vane back pressure in consideration of relatively easy generation of chattering of the vane at low vane back pressure, and the generation of chattering can effectively be prevented.

COPYRIGHT: (C)2001,JPO